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EXAMINER				
NGUYEN, ALLEN H				
ART UNIT		PAPER NUMBER		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary

Application No.

10/723,603

Applicant(s)

KOBAYASHI, AYAKO

Examiner

Allen H. Nguyen

Art Unit

2625

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 April 2009.
2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1, 3, 4, 6, 7, 9, 10 and 12-69 is/are pending in the application.
4a) Of the above claim(s) 25-68 is/are withdrawn from consideration.
5) ☐ Claim(s) _____ is/are allowed.
6) ☒ Claim(s) 1, 3, 4, 6, 7, 9, 10, 12-24 and 69 is/are rejected.
7) ☐ Claim(s) _____ is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
10) ☒ The drawing(s) filed on 26 November 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 04/28/2009 has been entered. Currently, claims 1, 3-4, 6-7, 9-10, 12-24, 69 are pending.

Response to Arguments

2. Applicant's arguments have been considered but are moot in view of the new ground of rejection.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claim 4 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 4, applicant claims "The image forming apparatus, wherein said configuration unit configures an "n"-to-one (n: an integer more than 1) relation between a plurality of said examining units and said program" as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is unclear of said examining units or said examining unit as of it claimed in claim 1.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

6. Claims 1, 3-4, 6-7, 9-10, 12-17, 19-24 are rejected under 35 U.S.C. 102(e) as being anticipated by Isshiki (US 2002/0118384).

Regarding claim 1, Isshiki '384 discloses an image forming apparatus (Fig. 1), comprising:

a hardware resource (3, 7, 10, fig. 2);

a program (HD initialization task, print job file processing task, applications; see page 4, paragraphs [0071]-[0072]);

an examining unit (CPU 1 /Controller 10, fig. 2) configured to examine said hardware resource (i.e., The CPU 1 controls access to various devices /hardware connected to a system bus 5 on the basis of a control program stored in the program ROM 2A or a control program which is stored in a hard disk (HD) 3 and loaded onto a RAM 4 in activation; Page 3, paragraph [0045], fig. 2) and determine whether said hardware resource exists (i.e., the task activates a hardware check program to check whether hardware is abnormal; Page 3, paragraph [0068]), and output, in response to a positive determination, a normal value and output (i.e., hardware exists, the task initializes various devices; Page 4, paragraph [0070]), in response to a negative determination, an abnormal value as the result of the examination (i.e., the task shifts to step S504 to display abnormal hardware, and ends a series of processes; Page 3, paragraph [0069]);

a configuration unit (operation system OS task, page 4, paragraphs [0070]-[0072]) configured to store identification information of the program and identification information of the examining unit (i.e., the task executes various initialization operations of a basic OS which will run on the CPU 1, and activates the basic OS program; see page 4, paragraph [0070], fig. 5), the examining unit being executed prior to execution of the program (i.e., the task causes the basic OS activated in step S507 to generate and activate application tasks; Page 4, paragraph [0072], fig. 5);

an activating unit (the boot processing task, page 3, paragraph [0068]) configured to activate the examining unit prior to the execution of the program and, in response to the positive determination activate said program (i.e., the task initializes

various devices on the main body 1000 and the task executes various initialization operations of a basic OS which will run on the CPU 1, and activates the basic OS program; Page 4, paragraph [0070] - [0072], fig. 5);

a storage unit configured to store the result of the examination (i.e., a storage medium (recording medium) which stores software program codes for realizing the functions is supplied to a system or apparatus; see page 6, paragraphs [0092], [0137], fig. 7), wherein said examining unit determines whether the result of the examination that said examining unit is to perform is stored in said storage unit, and uses (i.e., the computer (or the CPU or MPU) of the system or apparatus reads out and executes the program codes stored in the storage medium; see page 6, paragraph [0137]), if the result of the examination that said examining unit is to perform is stored in said storage unit, the stored result of the examination (i.e., the functions are realized not only when the computer (CPU) executes the readout program codes, but also when the operating system (OS) running on the computer performs part or all of actual processing on the basis of the instructions of the program codes; see page 6, paragraph [0137]).

Regarding claim 3, Isshiki '384 discloses the image forming apparatus (Fig. 1), wherein said configuration unit configures a one-to-"n" (n: an integer more than 1) relation between said examining unit (CPU 1, fig. 2) and a plurality of said programs (i.e., the task causes the basic OS activated in step S507 to generate and activate application tasks; see page 4, paragraphs [0070]-[0072], fig. 5).

Regarding claim 4, Isshiki '384 discloses the image forming apparatus (Fig. 1), wherein said configuration unit (operation system OS task, page 4, paragraphs [0070]-[0072]) configures an "n"-to-one (n: an integer more than 1) relation between a plurality of said examining units (CPU 1 /Controller 10, fig. 2) and said program (i.e., the task executes various initialization operations of a basic OS which will run on the CPU 1, and activates the basic OS program; see page 4, paragraph [0070], fig. 5).

Regarding claim 6, Isshiki '384 discloses the image forming apparatus (Fig. 1), wherein said activating unit (the boot processing task, page 3, paragraph [0068]) activates said examining unit in compliance with the relation configured in said configuration unit (i.e., the task causes the basic OS activated in step S507 to generate and activate application tasks such as the above-described network monitoring task and print job file processing task which run on the LBP main body 1000; see page 4, paragraph [0072], figs. 2, 5).

Regarding claim 7, Isshiki '384 discloses the image forming apparatus (Fig. 1), wherein said activating unit, after activating said program, terminates said examining unit (i.e., after the processing shifts to the applications, the task advances to step S505 to end a series of processes; see page 4, paragraph [0072], fig. 5).

Regarding claim 9, Isshiki '384 discloses the image forming apparatus (Fig. 1), wherein

said examining unit (CPU 1 /Controller 10, fig. 2) determines, if a device driver corresponding to said hardware resource can be successfully opened or is already opened (i.e., the HD spool initialization task is activated. Then, the task shifts to step S602 to check whether a print job file exists on the /SPOOL directory 302 of the HD 3; see page 4, paragraph [0075], figs. 5-6), that said hardware resource exists (i.e., the task advances to step S603 to delete all the print job files on the /SPOOL directory 302; see page 4, paragraph [0077], fig. 6), and determines that said hardware resource does not exist otherwise (i.e., the task advances to step S604 without any processing, and ends a series of processes; see page 4, paragraph [0076], fig. 6).

Regarding claim 10, Isshiki '384 discloses the image forming apparatus (Fig. 1), wherein,

in response to receipt of the normal value output by said examining unit (CPU 1 /Controller 10, fig. 2) in the determination as to whether said hardware resource exists that operates partially or entirely as one of a printer, a copier, a facsimile machine, and a scanner, said activating unit activates said program corresponding to the one of the printer (i.e., the task causes the basic OS activated in step S507 to generate and activate application tasks such as the network monitoring task and print job file processing task which run on the Laser beam printer LBP main body 1000; see page 4, paragraph [0072], figs. 2, 5), the copier, the facsimile machine, and the scanner.

Regarding claim 12, Isshiki '384 discloses the image forming apparatus (Fig. 1), wherein

in response to receipt of the normal value output by said examining unit (CPU 1 /Controller 10, page 4, paragraph [0070], fig. 2) in the determination as to whether a hard disk drive exists (i.e., the task advances to step S603 to delete all the print job files on the /SPOOL directory 302; see page 4, paragraph [0077], figs. 3, 6), said activating unit (the boot processing task, page 3, paragraph [0068]) configures a RAM disk in compliance with the relation configured in said configuration unit (i.e., a control program which is stored in a hard disk (HD) 3 and loaded onto a RAM 4 in activation; see page 3, paragraphs [0045], [0058], figs. 2-3).

Regarding claim 13, Isshiki '384 discloses the image forming apparatus (Fig. 1), wherein said examining unit (CPU 1 /Controller 10, page 4, paragraph [0070], fig. 2) determines whether said hardware resource satisfies a predetermined performance requirement (i.e., if "current time"-"previous boot time" is smaller than preset T1 in step S1002; see page 6, paragraph [0130], fig. 11), and outputs, in response to a positive determination, a normal value and outputs (i.e., the task advances to step S602 to execute the above-described processes in steps S602 and S603, such as check the presence of a print job file on a /SPOOL directory 302; see page 6, paragraph [0130], fig. 11), in response to a negative determination, an abnormal value as the result of the determination (i.e., if "current time"-"previous boot time" is equal to or larger than T1 in

step S1002, the task advances to step S1003 without any processing; see page 6, paragraph [0131], fig. 11).

Regarding claim 14, Isshiki '384 discloses the image forming apparatus (Fig. 1), wherein

in response to receipt of the normal value output by said examining unit (CPU 1, page 4, paragraph [0070], fig. 2) in the determination as to whether a central processing unit satisfies a predetermined performance requirement (i.e., if "current time"- "previous boot time" is smaller than preset T1 in step S1002; see page 6, paragraph [0130], fig. 11), said activating unit (the boot processing task, page 3, paragraph [0068]) activates said program having the relation with said examining unit (i.e., the task advances to step S602 to execute the above-described processes in steps S602 and S603, such as check the presence of a print job file on a /SPOOL directory 302; see page 6, paragraph [0130], fig. 11),

in response to receipt of the abnormal value output by said examining unit, said activating unit does not activate said program having the relation with said examining unit (i.e., if "current time"- "previous boot time" is equal to or larger than T1 in step S1002, the task advances to step S1003 without any processing; see page 6, paragraph [0131], fig. 11).

Regarding claim 15, Isshiki '384 discloses the image forming apparatus (Fig. 1), wherein said activating unit (the boot processing task, page 3, paragraph [0068]), in

response to receipt of the normal value from said examining unit (CPU 1, page 4, paragraph [0070], fig. 2) as the result of a memory check (i.e., a print job file left in a hard disk is checked in boot processing; see Abstract), activates said program related to said examining unit in said configuration unit (i.e., the task causes the basic OS activated in step S507 to generate and activate an HD spool initialization task; see page 4, paragraph [0071], fig. 5), and in response to receipt of the abnormal value from said examining unit as the result of the memory check, does not activate said program (i.e., if hardware is abnormal in step S503 (YES), the task shifts to step S504 to display abnormal hardware, and ends a series of processes; see page 3, paragraph [0069], fig. 5).

Regarding claim 16, Isshiki '384 discloses the image forming apparatus (Fig. 1), wherein

said configuration unit (operation system OS task, page 4, paragraphs [0070]-[0072]) configures the relation between said examining unit (CPU 1, page 4, paragraph [0070], fig. 2) and one of a directory in which said program is located and an upper directory thereof (i.e., reference numeral 301 denotes a /(root directory); and 302 and 303, a SPOOL directory and IMAGE directory immediately below the root directory; see page 3, paragraphs [0057]-[0058], fig. 3);

said activating unit (the boot processing task, page 3, paragraph [0068]), in response to receipt of the normal value as a result of the determination (i.e., the print job file processing task monitors the /SPOOL directory 302 of the HD 3, and waits until

an HD-spoiled print job file is detected / installed; see page 3, paragraph [0062], fig. 4), installs the directory or the upper directory related to said examining unit (i.e., if an HD-spoiled print job file is detected /installed, the task shifts to step S403; see page 3, paragraph [0062], fig. 4), and in response to receipt of the abnormal value as the result of the determination, installs neither the directory nor the upper directory (i.e., The task returns to step S402 again and waits until a print job file is detected /installed; see fig. 4).

Regarding claim 17, Isshiki '384 discloses the image forming apparatus (Fig. 1), wherein

said examining unit (CPU 1, page 4, paragraph [0070], fig. 2) determines whether a predetermined identifier of said hardware resource satisfies a predetermined condition (i.e., if "current time"- "previous boot time" is smaller than preset T1 in step S1002; see page 6, paragraph [0130], fig. 11), outputs a normal value in response to a positive determination (i.e., the task advances to step S602 to execute the above-described processes in steps S602 and S603, such as check the presence of a print job file on a /SPOOL directory 302; see page 6, paragraph [0130], fig. 11), and outputs an abnormal value in response to a negative determination (i.e., if "current time"- "previous boot time" is equal to or larger than T1 in step S1002, the task advances to step S1003 without any processing; see page 6, paragraph [0131], fig. 11).

Regarding claim 19, Isshiki '384 discloses the image forming apparatus (Fig. 1), wherein

said activating unit (the boot processing task, page 3, paragraph [0068]) executes said program configured in said configuration unit (operation system OS task, page 4, paragraphs [0070]-[0072], fig. 5) as related to said examining unit (CPU 1, fig. 2) in response to receipt of the normal value from said examining unit as the result of the determination (i.e., the task executes various initialization operations of a basic OS which will run on the CPU 1, and activates the basic OS; see page 4, paragraphs [0070]-[0072], fig. 5), and does not execute said program configured in said configuration unit as related to said examining unit in response to receipt of the abnormal value from said examining unit as the result of the determination (i.e., if hardware is abnormal in step S503 (YES), the task shifts to step S504 to display abnormal hardware, and ends a series of processes; see page 3, paragraph [0069], fig. 5).

Regarding claim 20, Isshiki '384 discloses the image forming apparatus (Fig. 1), wherein

said storage unit (3, 4, 11, fig. 2) is a memory region that said examining unit (CPU 1 /Controller 10, fig. 2) can directly access (Fig. 2).

Regarding claim 21, Isshiki '384 discloses the image forming apparatus (Fig. 1), wherein said activating unit (the boot processing task, page 3, paragraph [0068]) is

activated by an operating system that is activated after the power of the image forming apparatus is turned on (i.e., in boot processing executed upon power-on or resetting of the laser beam printer; see page 3, paragraphs [0066]-[0067], fig. 5).

Regarding claim 22, Isshiki '384 discloses the image forming apparatus (Fig. 1), wherein said program (basic OS program, HD initialization task program, print job file processing task program, paragraphs [0070]-[0072], figs. 5-11) further comprises:

an application program used for image forming (i.e., the task causes the basic OS activated in step S507 to generate and activate application tasks such as the above-described network monitoring task and print job file processing task which run on the LBP main body 1000; see page 4, paragraph [0072], fig. 2);

a control service program that manages said hardware resource used for the image forming (i.e., the task initializes various devices on the LBP main body 1000 and advances to step S507. In step S507, the task executes various initialization operations of a basic OS which will run on the CPU 1, and activates the basic OS; see page 4, paragraph [0070], fig. 2);

an operating system (i.e., the task executes various initialization operations of a basic OS which will run on the CPU 1, and activates the basic OS; see page 4, paragraph [0070], fig. 2).

Regarding claim 23, claim 23 is the method claim of device claim 1. Therefore, method claim 23 is rejected for the reason given in device claim 1.

Regarding claim 24, Isshiki '384 discloses a computer-readable storage medium storing a program that causes a computer having a hardware resource and a program (3, 4, 11, page 1, paragraph [0013], fig. 2) to function as:

an examining unit (CPU 1 /Controller 10, fig. 2) that examines said hardware resource (i.e., The CPU 1 controls access to various devices /hardware connected to a system bus 5 on the basis of a control program stored in the program ROM 2A or a control program which is stored in a hard disk (HD) 3 and loaded onto a RAM 4 in activation; Page 3, paragraph [0045], fig. 2) and determines whether said hardware resource exists (i.e., the task activates a hardware check program to check whether hardware is abnormal; Page 3, paragraph [0068]), and output, in response to a positive determination, a normal value and output (i.e., hardware exists, the task initializes various devices; Page 4, paragraph [0070]), in response to a negative determination, an abnormal value as the result of the examination (i.e., the task shifts to step S504 to display abnormal hardware, and ends a series of processes; Page 3, paragraph [0069]);

a configuration unit (operation system OS task, page 4, paragraphs [0070]-[0072]) in which a relation between said examining unit and said program is configured (i.e., the task executes various initialization operations of a basic OS which will run on the CPU 1, and activates the basic OS program; see page 4, paragraph [0070], fig. 5);

an activating unit (the boot processing task, page 3, paragraph [0068]) that activates said program having the relation with said examining unit based on the examination (i.e., the task initializes various devices on the main body 1000 and the

task executes various initialization operations of a basic OS which will run on the CPU 1, and activates the basic OS program; Page 4, paragraph [0070] - [0072], fig. 5);

a storage unit configured to store the result of the examination (i.e., a storage medium (recording medium) which stores software program codes for realizing the functions is supplied to a system or apparatus; see page 6, paragraphs [0092], [0137], fig. 7), wherein said examining unit determines whether the result of the examination that said examining unit is to perform is stored in said storage unit, and uses (i.e., the computer (or the CPU or MPU) of the system or apparatus reads out and executes the program codes stored in the storage medium; see page 6, paragraph [0137]), if the result of the examination that said examining unit is to perform is stored in said storage unit, the stored result of the examination (i.e., the functions are realized not only when the computer (CPU) executes the readout program codes, but also when the operating system (OS) running on the computer performs part or all of actual processing on the basis of the instructions of the program codes; see page 6, paragraph [0137]).

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 18, 69 are rejected under 35 U.S.C. 103(a) as being unpatentable over Isshiki (US 2002/0118384) in view of Kaneko et al. (US 5,752,040).

Regarding claim 18, Isshiki '384 does not explicitly show the image forming apparatus, wherein said examining unit determines whether an identifier stored in an SD card matches an identifier of a slot to which the SD card is inserted, outputs a normal value in response to a positive determination, and outputs an abnormal value in response to a negative determination.

However, the above-mentioned claimed limitations are well known in the art as evidenced by Kaneko '040. In particular, Kaneko '040 teaches the image forming apparatus (Fig. 2), wherein said examining unit (CPU 801, fig. 1) determines whether an identifier (i.e., the CPU 801 determines that the version of the program stored at present is the special version; see col. 8, lines 33-35, fig. 1) stored in an SD card matches an identifier of a slot to which the SD card is inserted (i.e., the IC card as an external storage device 807 has been inserted into the card inserting portion of the copy device; col. 8, lines 15-17), outputs a normal value in response to a positive determination (i.e., The program and data of the copy device are read out from the IC card as an external storage device 807 and are stored into the data storage area in the RAM 802 through the interface 805; see col. 8, lines 40-45), and outputs an abnormal value in response to a negative determination (i.e., the updating of the program is inhibited; col. 8, line 39).

In view of the above, having the system of Isshiki and then given the well-established teaching of Kaneko, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to modify the system of Isshiki as taught by Kaneko to include: the image forming apparatus, wherein said examining unit

determines whether an identifier stored in an SD card matches an identifier of a slot to which the SD card is inserted, outputs a normal value in response to a positive determination, and outputs an abnormal value in response to a negative determination, since Kaneko stated in col. 1, lines 10-20 that such a modification would ensure a copy device which can execute the copying operation on the basis of data that is supplied from an external device through an external interface.

Regarding claim 69, Kaneko '040 discloses the image forming apparatus (Figs. 1-2), wherein said identifier (i.e., the program and data are read out from the IC card as an external storage device 807 and the read-out program and data are stored into a data storage area in the RAM 802 through the interface 805; see col. 7, lines 20-25) is a number associated with said slot (col. 7, lines 5-65 and col. 8, lines 5-65; it should be noted that an identifier is a number associated with a slot when an external device is inserted into the slot).

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kester (US 6,003,093) discloses architecture for image processing application.

Kern et al. (US 5,708,810) discloses the ability to interact with all system hardware components and native operating systems.

Hosaka et al. (US 4,711,560) discloses image processing apparatus, such as a copier, having a removable medium containing programs for controlling the image processing apparatus.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allen H. Nguyen whose telephone number is (571)270-1229. The examiner can normally be reached on 9:00 AM-6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, KING Y. POON can be reached on (571) 272-7440. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/King Y. Poon/
Supervisory Patent Examiner, Art Unit 2625

/Allen H. Nguyen/
Examiner, Art Unit 2625

